

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-046113

(43)Date of publication of application : 16.02.1999

(51)Int. Cl.

H01Q 3/26
H01Q 3/36

(21)Application number : 10-147598

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(22)Date of filing : 28.05.1998

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(30)Priority

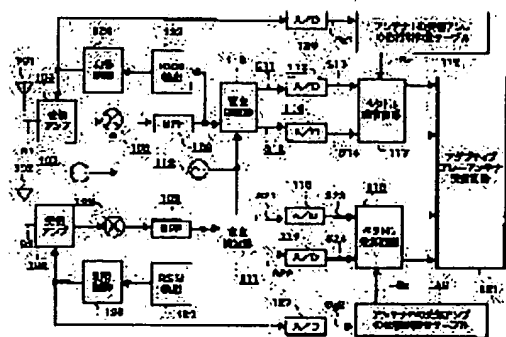
Priority number : 09158126 Priority date : 30.05.1997 Priority country : JP

(54) ARRAY ANTENNA RECEIVER AND PHASE ROTATION AMOUNT CORRECTION METHOD FOR RECEPTION SIGNAL

(57)Abstract:

PROBLEM TO BE SOLVED: To correct a phase rotation amount so that an input signal to an adaptive array antenna reception circuit keeps a phase difference at antenna terminals.

SOLUTION: A phase control variable table 119 (120) uses a gain denoting a received gain control signal $Sg1$ ($Sg2$) as an argument to provide a phase control signal Sc denoting a corresponding phase rotation amount to a vector multiplication circuit 117 (118). The vector multiplication circuit 117 (118) rotates a phase of an in-phase component $S13$ ($S23$) and a quadrature component $S14$ ($S24$) of an antenna 2 in the opposite directions. Thus, a phase rotation



amount by a reception amplifier is corrected so as to keep an input signal for each antenna a phase difference at antenna terminals.

LEGAL STATUS

[Date of request for examination] 26.04.2001

[Date of sending the examiner's decision of rejection] 09.12.2003

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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